

BEST BROS. KEENE'S CEMENT



**SPECIFICATIONS *and*
DIRECTIONS FOR USE**

BEST BROS. KEENE'S CEMENT

BEST BROS. KEENE'S CEMENT is made by the original manufacturers of this material in the United States—the only firm in America making Keene's Cement **exclusively**. While many years' experience is required to produce a uniformly perfect Keene's Cement, knowledge of the process of manufacture alone is not sufficient. No matter how good a material may be, satisfactory results cannot be obtained unless it is correctly applied.

THEREFORE, in this booklet we give the specifications and directions for use which our experience of a quarter of a century has proved to be the best adapted for securing satisfactory work. More detailed information on any subject mentioned will be gladly furnished on request.



The Best Bros. Keene's Cement Co.

Est. 1889

MEDICINE LODGE, KANSAS

NEW YORK

CHICAGO

March 1, 1915

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BEST BROS. KEENE'S CEMENT

To The Architect:

*Your special attention is
called to pages 8 to 14.*

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THE BEST BROS. KEENE'S CEMENT CO.



BEST BROS. KEENE'S CEMENT

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BEST BROS. KEENE'S CEMENT

The First Essential

in manufacturing Keene's Cement is purity of the raw material. Government reports show the rock in our quarry to be practically pure. We know of no other deposit like it.

BEST BROS. KEENE'S CEMENT

Made in Four Grades

BEST BROS. KEENE'S "REGULAR" is the grade used for all general plastering and finishing purposes.

BEST BROS. KEENE'S "FINE" is made from specially selected handpicked rock to ensure purity of color, and is ground somewhat finer than the Regular. It is used for castings, running mouldings, finishing columns and other ornamental plastering, and is extensively employed in the manufacture of Artificial Caen Stone Finish.

BEST BROS. KEENE'S "COARSE" is a very slow-setting, coarsely ground material used for backing up artificial marble.

BEST BROS. KEENE'S "SUPERFINE" is used for facing artificial marble. It is slow-setting, exceptionally fine ground, pure white, and has a high tensile strength.

There are no universally recognized standards for Keene's Cement. Each manufacturer makes his own. The time of set and fineness of grinding are occasionally varied to suit the conditions under which the material is to be used, but the tensile strength should be uniformly high. Below are the minimum requirements which every sack of our material must pass before being shipped. As a general rule our Keene's Cement will exceed the figures given by 25%.

	Regular	Fine	Coarse	Super- fine
Tensile strength, in lbs. per sq. in., 7 days in air....	350	400	500	550

BEST BROS. KEENE'S CEMENT

"The Plaster That Stands Hard Knocks"

BEST BROS. KEENE'S CEMENT

What It Really Is

With the exception of lime, practically all plastering materials for interior use may be broadly divided into two classes, both having their origin in Gypsum rock—namely, hard wall plasters and Keene's Cement.

In the manufacture of hard wall plaster, the Gypsum rock is first ground, then calcined for a short period at a low temperature, forming a very quick-setting material known as plaster of paris. To this are added chemicals to retard the set, also hair, fibre or such other ingredients as may be necessary.



With BEST BROS. KEENE'S CEMENT the process is entirely different. At no stage of the manufacture does Keene's Cement resemble in any manner plaster of paris, and no free chemicals or retarders enter into its composition. In the hands of experienced workmen the material goes through the various processes necessary to produce Keene's Cement, and it is packed in a pure form without the addition of hair, fibre or any other materials. From the moment the rock enters the mill, until the finished product pours into the sacks ready for shipment, the process differs at every point from the method of manufacturing other plastering materials.

BEST BROS. KEENE'S CEMENT contains no retarder; can be retempered as often as necessary; is comparatively slow-setting, and is very hard and strong, without being brittle. It can be worked over thoroughly until all marks of joinings or other inequalities are removed; and as it can be retempered, there is no danger of "dead" plaster being applied to

BEST BROS. KEENE'S CEMENT

the walls, thus doing away with a fruitful source of future trouble.

The hard, close grained surface of a wall plastered with BEST BROS. KEENE'S CEMENT forms an ideal base for painting or enameling. The expense of sizing is unnecessary, and the work can be started within a few days after the plastering is completed, thus dispensing with the usual delay. The most delicate colors may be safely applied, as there is no free alkali in BEST BROS. KEENE'S CEMENT.

BEST BROS. KEENE'S CEMENT is occasionally regarded as merely a superior variety of retarded hard plaster, whereas it is the direct opposite of this. It is the absence of unsanitary retarders, and the close, firm, germ-proof texture of the plaster that have been responsible for the use of our material in so many large hospitals, schools and other buildings where sanitation plays such an important part.

We do not recommend the use of Keene's Cement of any brand for exterior purposes. While it will stand very much more moisture than any other interior plastering material, it is not hydraulic, and will in time wear away when exposed to severe weather conditions.

Properly applied, BEST BROS. KEENE'S CEMENT is permanent. It not only sets slowly, but hardens slowly, and a wall plastered with it grows stronger and more durable the longer it stands.

BEST BROS. KEENE'S CEMENT does not deteriorate with age, as do ordinary plasters. If stored in a dry warehouse, it actually improves with keeping.

Named after the discoverer of the process, "Keene's" Cement has for nearly three-quarters of a century been the acknowledged standard in high-class plastering materials.

We have spent twenty-five years in bringing BEST BROS. KEENE'S CEMENT to its present state of perfection, and the experience and reputation for quality that we have acquired in that period stand behind every sack of material shipped under our brand.

EST. 1889



TRADE MARK

BEST BROS. KEENE'S CEMENT

Specifications Suitable for the Use of Architects

PLASTERING

All plastering shall be done with BEST BROS. KEENE'S CEMENT mixed and applied according to the specifications of the manufacturer, provided they do not conflict with the requirements herein.

—With Keene's Cement and Lump Lime—

THREE COAT WORK (On Wood or Metal Lath)

(A). Scratch Coat, shall be mixed in the following proportions: To one barrel of lime paste add three barrels of sand and plenty of good well beaten, water soaked, long winter slaughtered cattle hair. Gauge each cubic yard of this mixture with three (3) bags Best Bros. Keene's "REGULAR" of one hundred (100) lbs. each. Keene's Cement and sand to be mixed dry before adding lime paste.

(B). Brown Coat. To one barrel of lime paste add four barrels of sand, and gauge each cubic yard of this mixture with three (3) bags of Keene's Cement as above. Keene's Cement and sand to be mixed dry before adding lime paste.

(C). Finish Coat. To each one hundred (100) pounds of Best Bros. Keene's "REGULAR" add two pails of lime paste.

TWO COAT WORK (On Tile and Brick Work)

Brown Coat. Use Brown Coat (B) omitting Scratch Coat.

Finish Coat. To each one hundred (100) pounds of Best Bros. Keene's "REGULAR" add two pails of lime paste.

ONE COAT WORK (On Concrete)

To each one hundred (100) pounds of Best Bros. Keene's "REGULAR" add two pails of lime paste.

BEST BROS. KEENE'S CEMENT

—With Keene's Cement and Hydrated Lime—

THREE COAT WORK (On Wood or Metal Lath)

(A). Scratch Coat, shall consist of equal parts of dry hydrated lime and Best Bros. Keene's "REGULAR" in proportions of 1 cu. ft. of Hydrated Lime, 1 cu. ft. of Best Bros. Keene's "REGULAR" and not to exceed 5 cu. ft. of sand, in which shall be thoroughly and evenly incorporated plenty of good, well beaten, water soaked, long winter slaughtered cattle hair.

(B). Brown Coat, shall consist of equal parts of dry hydrated lime and Best Bros. Keene's "REGULAR" in proportions of 1 cu. ft. of hydrated lime, 1 cu. ft. Best Bros. Keene's "REGULAR" and not to exceed 7 cu. ft. of sand.

(C). Finish Coat, shall be mixed in proportions of 400 lbs. Best Bros. Keene's "REGULAR" and 100 lbs. of dry hydrated lime.

TWO COAT WORK (On Tile and Brick Work)

Brown Coat. Use Brown Coat (B) omitting Scratch Coat.

Finish Coat. Shall be mixed in proportions of 400 lbs. Best Bros. Keene's "REGULAR" and 100 lbs. of dry hydrated lime.

ONE COAT WORK (On Concrete)

Finish Coat. Shall be mixed in proportions of 400 lbs. Best Bros. Keene's "REGULAR" and 100 lbs. of dry hydrated lime.

BRICK AND TILE SURFACES

All brick and tile surfaces shall be thoroughly broomed off and washed before the mortar is applied, and shall be damp when it is applied.

CONCRETE SURFACES

Concrete or cement surfaces shall be washed and scrubbed with a steel brush so as to remove all dust and loose particles. The surface shall then be thoroughly washed with a ten per cent solution of muriatic acid in water. The concrete must be thoroughly dampened while the plaster is applied. The one coat finish plaster applied to this shall be a thin coat thor-

BEST BROS. KEENE'S CEMENT

oughly troweled and worked into the surface of the concrete to make adhesion perfect. Any plastered surfaces that are loose and not properly attached to the concrete after the mortar has dried out, must be cut out and done over again, and sufficient area shall be thus removed to make a uniform surface without having the appearance of patch work.

LIME

Hydrated lime shall be soaked in water tight boxes for 24 hours before using.

Lump lime shall be prepared and run through a fine sieve, $\frac{1}{8}$ -inch mesh, and properly stored and protected for a sufficient time before using to ensure all particles being thoroughly slaked.

LATHING

Metal lath shall be either painted or galvanized. Wood lath shall be a good grade, free from knots, sap and bark (white pine preferred). It shall be thoroughly dampened before plaster is applied.

MOULDINGS

Mouldings shall be run straight and true, using metal templates with profiles as given on full sized details.

ORNAMENTAL WORK

The ornamental plaster work shall be cast Best Bros. Keene's Cement, set in place and securely anchored (as hereinbefore specified).

ALTERNATIVE FINISHES

Smooth Hard Finish (for bathroom wainscots and similar work). Use Best Bros. Keene's "REGULAR" neat. No lime to be added. (If an extra fine white finish is required, use Best Bros. Keene's "FINE".)

Sand Float Finish. To one barrel of lime paste add four barrels of sand, and gauge with three bags of Best Bros. Keene's "REGULAR" of 100 lbs. each. Keene's Cement and sand to be mixed dry before adding lime paste.

BEST BROS. KEENE'S CEMENT

Specifications For Ornamental Work

LATHING

If the work is to be applied to lathed surfaces, only coated or galvanized metal lath shall be used.

PLASTERING

Scratch and Brown Coats shall be mixed in the same proportions as specified for wall surfaces. Allow scratch coat to dry and brown out to within one-fourth inch of the finish coat with a muffled mould. The finish coat shall be applied while the Brown Coat is green.

RUN WORK

All mouldings, window stools, door and window trim and work of like character shall be run in Best Bros. Keene's "FINE."

CORNICES

The finish coat for cornices shall be mixed in proportions of 400 lbs. Best Bros. Keene's "FINE" and 100 lbs. dry hydrated lime.

CAST WORK

Ornamental work of every kind, excepting only run mouldings and cornices as previously specified, shall be cast with Best Bros. Keene's "FINE," used neat. Add only sufficient water to bring it to the consistency of a thick paste. It shall be thoroughly pressed and worked into place, making all members neat and clean.

BEST BROS. KEENE'S CEMENT

Plasterers' Quantities

GROUND

Wood lath, $\frac{7}{8}$ inch. Metal lath, $\frac{1}{2}$ inch. Brick or tile, $\frac{1}{2}$ inch.

SAND

Must be screened, clean and sharp.

LIME

If lime putty be used, it must be well slaked, run through a fine mesh sieve, and allowed to cool in its bed for a sufficient time before being used.

Hydrated lime shall be soaked in water-tight boxes for at least twelve hours before using. (See also Page 21.)

WOOD OR METAL LATH—Three Coat Work

To each 100 sq. yds. surface.

SCRATCH COAT

3 sacks BEST BROS. KEENE'S "REGULAR,"
of 100 lbs. each.

2 bushels of lime (or 200 lbs. dry hydrated lime).

1 bushel good, washed hair.

$\frac{3}{4}$ cu. yd. good, clean, sharp sand.

Scratch well and let the wall get hard before applying the second coat. On metal lath more hair must be used, according to the mesh of the lath.

BROWN COAT

2 sacks BEST BROS. KEENE'S "REGULAR"
of 100 lbs. each.

$1\frac{1}{2}$ bushels of lime (or 150 lbs. dry hydrated lime).

$\frac{3}{4}$ cu. yd. good, clean, sharp sand.

This coat must be left under the straight edge and brought to a true and level surface.

FINISH COAT

Use Smooth Finish. (See "FINISHES.")

BEST BROS. KEENE'S CEMENT

LAI D OFF WORK

Omit scratching and apply second coat immediately after the first.

BRICK OR TILE—Two Coat Work

To each 100 sq. yds. surface.

SCRATCH COAT

- 4 sacks BEST BROS. KEENE'S "REGULAR" of 100 lbs. each.
- 2½ bushels of lime (or 250 lbs. dry hydrated lime).
- 1½ cu. yds. good, clean, sharp sand.

FINISH COAT

Use Smooth Finish. (See "FINISHES.")

CONCRETE WALLS AND CEILINGS

New concrete should not be plastered until it has properly dried out. Before applying plaster to concrete surfaces, they must be well swept off with a wire broom to remove all dirt and dust and washed with a 10% solution of muriatic acid and water (one quart acid to a bucket of water). The concrete must be dampened while the plaster is applied. Whenever possible concrete ceilings should be done in one coat, using sand float finish or smooth finish. If two-coat work be specified on concrete, the following proportions should be used:

To each 100 sq. yds. surface.

BASE COAT

- 3 sacks BEST BROS. KEENE'S "REGULAR," of 100 lbs. each.
- 1 bushel of lime (or 100 lbs. dry hydrated lime).
- ½ cu. yd. good, clean, sharp sand.

FINISH COAT

Use Smooth Finish. (See "FINISHES.")

BEST BROS. KEENE'S CEMENT

FINISHES

To each 100 sq. yds. surface.

SMOOTH FINISH

4 sacks BEST BROS. KEENE'S "REGULAR,"
of 100 lbs. each.

1 bushel of lime (or 100 lbs. dry hydrated lime).
This finish coat shall be put on in the best possible
manner and troweled to a smooth polished surface.
If the brown coat is bone dry, sprinkle with clean
water ahead of the finish. Do not trowel to a finish
until nearly set.

SMOOTH & HARD FINISH

(For bathrooms, wainscoting and similar work.)

5 sacks BEST BROS. KEENE'S "REGULAR,"
of 100 lbs. each. No lime to be added. If an extra
fine white finish is required, use BEST BROS.
KEENE'S "FINE."

SAND FLOAT FINISH

2 sacks BEST BROS. KEENE'S "REGULAR,"
of 100 lbs. each.

1 bushel of lime (or 100 lbs. dry hydrated lime).

$\frac{1}{3}$ cu. yd. good, clean, sharp sand.

See also "Directions for Mixing and Applying" on
page 15.

BEST BROS. KEENE'S CEMENT

Directions for Mixing and Applying

BASE COAT

First mix the Keene's Cement in a dry form with an equal amount of sand, then add plenty of clean water. Break up the initial set. Add sand and water to the lime putty, also hair for the scratch coat. Dampen thoroughly, then pull the two piles together, adding sand and water until of the proper consistency and proportions.

If more Keene's Cement is required, first mix the same in a DRY form with sand, so that it will not become lumpy when added to the mortar.

The mortar should be stiff, so as not to drop behind the lath.

If the base coat is to be applied over gypsum blocks, it is important that the blocks be well dampened with water before plastering.

Brick and tile and concrete surfaces should also be thoroughly swept off and dampened before plaster is applied.

FINISH COAT

Mix the Keene's Cement with plenty of clean water. Break up the initial set. Lime may be added if specified, but never in a larger proportion than two parts of lime putty to three of Keene's Cement.

Rough on the finish, and ALLOW IT TO SET until a trowel rings when passed over it, then trowel smooth, using as LITTLE WATER as possible. This is important, as if water is used too freely, the finish coat is simply retempered and floated, which does not give the smooth, polished surface that should be obtained with Keene's Cement.

Mortar should be applied thin, so as to spread evenly without curling.

BEST BROS. KEENE'S CEMENT

Finish should be laid on immediately after the second coat has set, and before suction has commenced. If the brown coat is bone dry, it should be sprinkled with water ahead of the finish.

DO NOT TRY TO WORK OUT ANY SMALL AIRHOLES that may appear when the Keene's Cement finish is first applied, as they will all disappear before the final troweling.

By using two boxes, and taking mortar from them alternately, one laborer can mix sufficient finish to keep five or six plasterers busy. The plasterers' time is not taken up in mixing the finish, and they can thus cover one-third more surface than when lime and plaster of paris is used.

IMPORTANT

Do not try to trowel a Keene's Cement finish as soon as it is applied. Let it stand for a few minutes—THEN trowel to a hard smooth finish.

Do not throw a Keene's Cement mixture away because it starts to SET either in the box or on the board. Add more water and retemper. You can't kill Best Bros. Keene's Cement.

BEST BROS. KEENE'S CEMENT

Wainscoting in Bathrooms, Kitchens and Corridors

To secure absolute sanitation, the base and cap moulds should first be run in BEST BROS. KEENE'S CEMENT "FINE," and the space between filled in as in ordinary plastering. It is customary to run the cap mould about 4 feet 6 inches from the floor.

As the wainscoting is the part of the wall most likely to sustain injury from rough usage, it should be as strong as possible, and very little, if any, lime should be used in the finish coat.

When laying off wainscots in imitation of tiling, the finish should be sufficiently hard for the marking tool to cut sharply defined lines without tearing the wall. In the absence of a proper tool, the handle end of a file will usually give satisfactory results. As a general rule it is well to wait for twelve or fourteen hours after the plastering is completed before using the marking tool.

Another method is to allow the finish coat to dry out thoroughly, then mark it off into blocks of the required size with a blue pencil, such as carpenters use, making the lines about one-eighth of an inch wide. The work is then finished with two or three coats of a good transparent varnish.

While the above methods are often followed, a more pleasing and durable effect is obtained by leaving the finish in a smooth state, and not marking it off to reproduce tiling. A Keene's Cement wall is good enough to stand on its own merits, without being made in imitation of a less satisfactory material.

BEST BROS. KEENE'S CEMENT is not waterproof. It will stand more moisture than any other interior plastering material, but where it is desired to wash the walls or wainscoting frequently, the same should be either enameled or given some other surface treatment.

For the cost of Keene's Cement wainscots see Page 20.

BEST BROS. KEENE'S CEMENT

Painting Keene's Cement Walls

If it is desired to give the plastering a decorative or waterproofing treatment, BEST BROS. KEENE'S CEMENT will be found to possess many advantages over ordinary plasters for this purpose.

A Keene's Cement wall can and should be painted or enameled as soon as it is thoroughly dry; thus dispensing with the usual delay.

Keene's Cement makes a compact, close-grained surface that forms an ideal base for any kind of decorative work.

There is no free alkali in BEST BROS. KEENE'S CEMENT, and the most delicate colors may be safely applied over it.

If it is desired to size the walls before painting, a primer of varnish, thinned down, will be found satisfactory.

Thousands of dollars' worth of expensive frescoes are ruined yearly through using a cheap plaster of paris and lime finish for the base. For such work, where the plastering is but a small proportion of the total cost, it is true economy to use BEST BROS. KEENE'S CEMENT, which forms a base that is inert, solid and permanent, and will not fade or burn any colors applied over it.

Enameling Keene's Cement Walls

There are many excellent makes of enamel now on the market which are most suitable for use over BEST BROS. KEENE'S CEMENT, and the manufacturers of such products will gladly furnish on request full directions for the use of their enamels in connection with Keene's Cement.

BEST BROS. KEENE'S CEMENT

In general, however, it is safe to say that at least three undercoats should be used, preferably of white lead in oil, although it is quite customary to combine with the lead a certain proportion of zinc, increasing the amount of zinc used with each successive coat.

Undercoats should be allowed sufficient time to dry out thoroughly, and then be lightly sanded with 00 sandpaper. If the undercoats have been properly applied and finished, one finishing coat of white enamel should be sufficient.

Blackboards For Schools, Etc.

The strength and durability of BEST BROS. KEENE'S CEMENT make it particularly suitable for blackboards in schools and lecture rooms, where it is not desired to go to the expense of installing slate blackboards.

When used for this purpose, the base coats should be applied as in ordinary plastering; the brown coat being brought to a true and level surface.

The finish coat should be composed of pure Keene's Cement and water, with the addition of sufficient lamp black to make the coat dark grey in shade. This finish coat must be not less than one-eighth of an inch thick, and must be troweled until perfectly smooth and level.

When dry, the finish coat should be painted with one of the preparations that are made and sold for this purpose, or instead, it may be given three coats of the following mixture: Dissolve one pound of white shellac in one gallon of wood alcohol, and add four ounces of lamp black and eight ounces of powdered pumice stone. This provides a surface to which chalk will readily adhere, and one that can be easily cleaned.

BEST BROS. KEENE'S CEMENT

Cost of Using Best Bros. Keene's Cement

So many factors enter into the cost of finished plastering that it is not practicable to name prices that would apply equally over any large part of the country. The cost of materials and labor in the local market, and the state of business, will frequently cause marked variations in plastering estimates.

As a general rule, three coat work done with BEST BROS. KEENE'S CEMENT will cost about 5c a square yard more than hard wall plaster. This alternate applies generally throughout the Central states. In the Pacific and Atlantic coast states it would be better to figure about 8c per square yard more for Keene's Cement than for hard wall plaster.

Ornamental plastering executed in Keene's Cement is usually figured at about 10c per square yard more than when ordinary casting plaster is used.

In using Keene's Cement for wainscots, very little, if any lime should be used in the finish coat, which can either be left smooth or marked off in imitation of tiling. (See Page 17.) The total cost of this class of work, including enamelling, will usually run about 90c per square yard, with an additional 10c a running foot for cap and base mouldings. This is only a fraction of the cost of tiling, and it eliminates the cost of repairs, which are so frequently necessary when tiles are used.

There is very little difference in final cost between lump lime and hydrated lime for mixing with Keene's Cement. Many contractors figure that the higher initial cost of the hydrated lime is balanced by the time, space and labor that is saved by its use, and therefore do not make an extra charge for it.

BEST BROS. KEENE'S CEMENT

On large jobs we recommend the use of a power mixer for mixing the materials required for the base coats. This not only effects a saving in labor, but also thoroughly combines the different ingredients of the mortar. For this class of work a continuous mixer is considered the best type.

For three coat work, done in accordance with our specifications, the actual covering capacity of a ton of BEST BROS. KEENE'S CEMENT is 220 square yards.

Difference Between Hydrated and Lump Limes

We are frequently asked whether Hydrated Lime can be used in place of Lump Lime for mixing with BEST BROS. KEENE'S CEMENT. Lime may be used in either of the above forms, but owing to the variation in the sand-carrying capacity of the different brands of hydrated lime, a contractor should figure on using a full 100 lbs. of hydrated lime in place of each bushel of lump lime.

The figures given in the following comparison are taken from tests made between two of the best-known brands of lime on the market. These figures will vary slightly for different kinds of lime, according to chemical composition and efficiency in burning, but for general purposes they are accurate.

100 lbs. Lump Lime	100 lbs. Hydrated Lime
1.15..cu. ft. displacement.....	3.59
3.27..cu. ft. of putty.....	2.63
272.00..lbs. of putty.....	228.00
83.20..weight of 1 cu. ft. of putty in lbs.....	86.90
30.50..lbs. required to produce 1 cu. ft. of putty	38.00

While the above table shows that 30½ lbs. of lump lime will produce as much putty as 38 lbs. of hydrated lime, when it comes to sand-carrying capacity the best brands of hydrated lime will nearly offset this difference, and, pound for pound, will carry practically as much sand as the lump lime.

BEST BROS. KEENE'S CEMENT

Castings

Castings made with BEST BROS. KEENE'S CEMENT possess a strength and richness of texture not obtainable with any other materials. The natural surface of a Keene's Cement casting is an egg-shell gloss, but it can be polished to a marble like lustre if desired. If a small quantity of mica dust be sprinkled in the mould, the resulting cast will have the rich, sparkling appearance of unpolished marble.

If plaster moulds are used, they should be given five or six very thin coats of sweet oil, brushed well in. This is the best method of greasing the mould to prevent the cast showing oil stains.

After the Keene's Cement has been poured into the mould, it should be left undisturbed until it has set. Shaking the mould while the Keene's Cement is still in a liquid form does not drive out the air-bubbles, as some people seem to think, but merely forces them to the face of the casting.

The way to **avoid air-bubbles** in castings is to mix the Keene's Cement to the consistency of cream, and then pour in a small amount of the material, tilting the mould so that the Keene's Cement covers all the face of the mould with a very thin skim of material. Repeat this operation three or four times, and then fill the mould.

The time of setting can be materially hastened by using from 3 per cent to 5 per cent of a freshly calcined, high-grade plaster of paris. On no account should more than one part of plaster of paris to twenty parts of Keene's Cement be used.

In making castings for Artificial Marble or Caen Stone, it is necessary to mix the material into a fairly stiff paste, which has to be thoroughly pressed and worked into all parts of the mould. When the cast is removed from the mould, any airholes can then be filled in with the same material as was used in making the cast. This filling in should always be done with wooden floats or pointers; steel tools should not be used for the work.

BEST BROS. KEENE'S CEMENT

NOTES

BEST BROS. KEENE'S CEMENT will keep indefinitely if stored in a dry warehouse. It does not deteriorate with age, but on the contrary improves.

* * *

It is quite satisfactory to apply a finish coat of BEST BROS. KEENE'S CEMENT over a base coat of hard wall plaster, although better results are of course obtained if both base and finish coats are done with BEST BROS. KEENE'S CEMENT.

* * *

Do not use too much lime in the finish coat. The proportion should never exceed two parts of lime to three parts of BEST BROS. KEENE'S CEMENT.

* * *

BEST BROS. KEENE'S CEMENT can safely be remixed as often as necessary. If it starts to set up and harden, either in the mixing box or on the board, just add a little water and re-mix. It positively will not "kill."

* * *

A Keene's Cement finish can be trowelled until it is perfect—until all marks of joinings are taken out and a smooth, level surface is obtained. It will not go "dead," however long you work it.

* * *

It is not advisable to mix coloring matter with Keene's Cement or any other plastering material, as the wall will usually dry out streaky and uneven in shade. If a colored wall is desired, first plaster it, then paint the plaster.

* * *

BEST BROS. KEENE'S CEMENT is carried in stock by the leading dealers of practically every large city in the United States as well as in many of the smaller cities.

BEST BROS. KEENE'S CEMENT

A Partial List of Buildings Wherein Best Bros. Keene's Cement Has Been Used

Federal, State and Public Buildings

BUILDINGS.	LOCATIONS.	ARCHITECTS.
U. S. Senate Office Bldg...	Washington, D. C.	Elliott Woods and Carrere & Hastings
U. S. House Office Building, Conference Room...	Washington, D. C.	Elliott Woods and Carrere & Hastings
U. S. Capitol, Senate and House Office Bldgs. Subways	Washington, D. C.	Elliott Woods and Carrere & Hastings
U. S. Naval Station.....	North Chicago, Ill.	Jarvis Hunt
U. S. Penitentiary	Atlanta, Ga.	Eames & Young
U. S. Immigrant Detention Bldg.	Gloucester, N. J.	U. S. Government
U. S. Fort Bliss	Texas	U. S. Government
U. S. Fort Russell,	Cheyenne, Wyo.	U. S. Government
U. S. Post Office	Bellingham, Wash.	U. S. Government
U. S. Post Office	Dothan, Ala.	U. S. Government
U. S. Post Office	Alpena, Mich.	U. S. Government
U. S. Post Office	Mattoon, Ill.	U. S. Government
U. S. Post Office	Trinidad, Colo.	U. S. Government
U. S. Post Office	Iola, Kans.	U. S. Government
U. S. Post Office	Hattiesburg, Miss.	U. S. Government
U. S. Post Office	Wabash, Ind.	U. S. Government
U. S. Post Office	Mt. Clemens, Mich.	U. S. Government
U. S. Post Office	Independence, Kans.	U. S. Government
U. S. Post Office	Watertown, Wis.	U. S. Government
U. S. Post Office	Maryville, Mo.	U. S. Government
U. S. Post Office	Johnstown, Pa.	U. S. Government
State Educational Building	Albany, N. Y.	Palmer & Hornbostel
State Library & Supreme Court	Hartford, Conn.	Donn Barber
State Capitol.....	Jackson, Miss.	Theo. C. Link
State Capitol.....	Santa Fe, N. Mex.	I. H. & W. M. Rapp
State Capitol.....	Madison, Wis.	Geo. B. Post & Sons
State Asylum.....	Bangor, Me.	J. Calvin Stevens
State Asylum.....	Yankton, S. D.	L. C. Mead
Hudson County Court House	Jersey City, N. J.	Hugh Roberts
Olathe County Court House	Olathe, Kans.	Geo. P. Washburn
Franklin County Court House	Ottawa, Kans.	Geo. P. Washburn
Court House	Genesee, Mich.	Clark & Munger
University of Pennsylvania	Philadelphia, Pa.	Cope and Stewardson
University of Minnesota	Minneapolis, Minn.	C. H. Johnston
Washington University....	St. Louis, Mo.	Cope and Stewardson
National Museum.....	Washington, D. C.	Hornblower & Marshall
Allegheny Co. Soldiers' Memorial	Pittsburg, Pa.	Palmer & Hornbostel
Jefferson Memorial.....	St. Louis, Mo.	Isaac Taylor
G. A. R. Memorial.....	Topeka, Kans.	Chas. H. Chandler
Memorial Building.....	Dayton, Ohio.	W. E. Russ
Art Institute.....	Chicago, Ill.	Shepley, Rutan & Coolidge
Chicago Historical Soc. Bldg.	Chicago, Ill.	Shepley, Rutan & Coolidge
N. Y. Subway Extensions.	N. Y. City	Public Service Commission
Zoological Building.....	W. Philadelphia, Pa.	Cope and Stewardson
Ridge View School.....	Moline, Ill.	H. W. Whitsitt
LaFayette High School....	Buffalo, N. Y.	Esenwein & Johnson
Missouri Medical College..	St. Louis, Mo.	J. M. Wees
The High School.....	E. St. Louis, Ill.	M. C. E. Branson
Public Library.....	E. St. Louis, Ill.	M. C. E. Branson
Public Library.....	Chicago, Ill.	Shepley, Rutan & Coolidge

BEST BROS. KEENE'S CEMENT

BUILDINGS.	LOCATIONS.	ARCHITECTS.
High School.....	Decatur, Ill.....	B. S. Brooks
Robinson St. School.....	Binghamton, N. Y.....	H. S. Gardener
Laurel Avenue School.....	Binghamton, N. Y.....	H. S. Gardener
Everett High School.....	Everett, Wash.....	Stephen & Stephen
Stevenson High School.....	Flint, Mich.....	Van Leyn & Shilling
Cass School.....	Detroit, Mich.....	Malcomson & Higgin- botham
Slidell School.....	Slidell, La.....	Stevens & Nelson
West Technical High School	Cleveland, Ohio....	F. S. Barnum
High School.....	Gary, Ind.....	W. B. Ittner
Simmons School.....	St. Louis, Mo.....	W. B. Ittner
City Hall.....	Quincy, Ill.....	Harvey Chatten
School Building.....	Evanston, Ill.....	Raeder & Wood
New Pumping Station.....	Baltimore, Md.....	Henry Brauns
Central Police Station.....	Memphis, Tenn.....	Shaw & Pfeil

Banks, Office Buildings, Etc.

BUILDINGS.	LOCATIONS.	ARCHITECTS.
First Nat'l Bank Bldg.....	Roanoke, Va.....	John K. Peebles
Franklin Bldg.....	Chicago, Ill.....	Geo. C. Nimmons
Payne Bldg.....	Roanoke, Va.....	Frye & Chesterman
First Nat'l Bank.....	Cleveland, O.....	J. Milton Dyer
Topeka Bank Bldg.....	Topeka, Kans.....	J. C. Holland
Nat'l Bank of Pennsylvania	Pittsburgh, Pa.....	Geo. S. Orth & Bro.
H. W. Hellman Bldg.....	Los Angeles, Cal....	A. S. Rosenheim
Nat'l Bank of Commerce.....	St. Louis, Mo.....	Isaac Taylor
Gibbs Bldg.....	New York City.....	W. E. Bloodgood
Irving Savings Bank.....	New York City.....	Thos. R. Jackson
Pope Building.....	Boston, Mass.....	Peabody & Stearns
Poli Office Bldg.....	New Haven, Conn....	W. H. Allen
Business Block.....	Wilton, N. H.....	E. M. A. Machado
Allen Block.....	Allston, Mass.....	Kendall & Stevens
Wainwright Bldg.....	St. Louis, Mo.....	Adler, Sullivan & Ram- sey
Benoist Bldg.....	St. Louis, Mo.....	John D. Paulus
Boatman's Bank.....	St. Louis, Mo.....	T. B. Annan & Son
Goddard Bldg.....	Boston, Mass.....	Arthur Vinal
Arcade Bldg.....	Dayton, Ohio.....	F. M. Andrews
Commercial Bldg.....	Dayton, Ohio.....	Schenck & Williams
U. B. Building.....	Dayton, Ohio.....	Chas. Herby
Citizens Title & Trust Bldg.	Decatur, Ill.....	C. J. Aschauer
National City Bank.....	New York City.....	McKim, Meade & White
Fifth Ave. Office Bldg.....	New York City.....	Maynick & Franke
F. T. Crowe & Co.'s Office.	Tacoma, Wash.....	Darmer & Cutting
Western National Bank....	Pittsburgh, Pa.....	Geo. Orth & Bro.
Riebold Bldg.....	Dayton, Ohio.....	P. Burns & Pretinzer
Foxcroft Bldg.....	San Francisco, Cal..	F. H. Meyer
Pillsbury Bldg.....	San Francisco, Cal..	Meyers & Ward
Monadnock Bldg.....	San Francisco, Cal..	Meyer & O'Brien
Pacific Bldg.....	San Francisco, Cal..	C. F. Whittelsey
McDonough Bldg.....	San Francisco, Cal..	Wm. Curlett
Maskey Bldg.....	San Francisco, Cal..	Havens & Toepke
Commercial Bldg.....	San Francisco, Cal..	Lewis P. Hobart
Security Bank Bldg.....	San Francisco, Cal..	N. Blaisdell
Walker Bldg.....	Seattle, Wash.....	Bebb & Mendal
Strickland Bldg.....	Roanoke, Va.....	H. H. Huggins
Pullman Bldg.....	Omaha, Neb.....	H. A. Raapke
The Berry-Stroud Bldg.....	Lynchburg, Va.....	Heard & Caldwell
First National Bank.....	Lynchburg, Va.....	Lewis Burnham
Ingalls' Office Bldg.....	Cincinnati, Ohio....	Elzner & Anderson
Marquette Bldg.....	Chicago, Ill.....	Holabird & Roche
Joliet National Bank Bldg..	Joliet, Ill.....	Julian Barnes
First National Bank Bldg..	Englewood, Ill.....	Julian Barnes
Illinois Trust Bldg.....	Chicago, Ill.....	Shepley, Rutan & Coolidge
San Francisco Savings Un- ion Bldg.....	San Francisco, Cal..	Bliss & Faville
Kansas City Star Bldg.....	Kansas City, Mo....	Jarvis Hunt

BEST BROS. KEENE'S CEMENT

BUILDINGS.	LOCATIONS.	ARCHITECTS.
Ohio National Bank Bldg.....	Columbus, Ohio.....	Richards, McCarty & Bulford
Santa Fe Office Bldg.....	Topeka, Kans.....	Root & Siemens
Temple Church Bldg.....	Kansas City, Mo.....	J. W. McKecknie
Burnap Bldg.....	Kansas City, Mo.....	J. W. McKecknie
Hearst Bldg.....	San Francisco, Cal.....	Kirby, Petit & Green
Jonesboro Bank Bldg.....	Jonesboro, Ark.....	Shaw & Pfeill
State Sav. Loan & Tr. Co.....	Quincy, Ill.....	Patten & Miller
Buffalo Savings Bank.....	Buffalo, N. Y.....	Green & Wicks
Whitehall Bldg.....	New York City.....	Clinton & Russell
Nat'l Exchange Bank Bldg.....	Roanoke, Va.....	Wyatt & Nolting

Stores and Business Buildings

BUILDINGS.	LOCATIONS.	ARCHITECTS.
Wanamaker Bldg.....	Philadelphia, Pa.....	D. H. Burnham & Co.
Butler Bros. Bldg.....	Chicago, Ill.....	D. H. Burnham & Co.
Times Building.....	Roanoke, Va.....	Frye & Chesterman
Norvell-Shapleigh Bldg.....	St. Louis, Mo.....	Weber & Groves
Weinstock-Lubin Bldg.....	Sacramento, Cal.....	Meyer & O'Brien
Hamilton-Brown Bldg.....	St. Louis, Mo.....	H. E. Roach & Son
Fayette Shaw Leather Bldg.....	Boston, Mass.....	Peabody & Stearns
New Equitable Bldg.....	Denver, Colo.....	L. A. Desjardines
The News Bldg.....	Dayton, Ohio.....	Albert Pretzinger
29th St. Realty Bldg.....	New York City.....	J. H. Morgan
Morgan & Wright Rubber Co. Bldg.....	Detroit, Mich.....	Rogers & McFarlane
Gimbel Bros. Bldg.....	New York City.....	D. H. Burnham & Co. and Clinton & Russell
Gloyd Bldg.....	Kansas City, Mo.....	J. W. McKecknie
Bell Telephone Bldg.....	Brookline, Mass.....	Frank Weston
Straus Studio.....	St. Louis, Mo.....	Louis Mullgardt
Peoples Gas Co. Bldg.....	Chicago, Ill.....	D. H. Burnham & Co.
The Hofbrau Restaurant.....	Chicago, Ill.....	Schmidt, Garden & Martin
The Ward-Corby Co. Bldg.....	Chicago, Ill.....	C. B. Comstock
Pioneer Bldg.....	Seattle, Wash.....	A. Wethersham
Commercial Pub. Co.'s Bldg.....	Memphis, Tenn.....	Shaw & Pfeill
Gilliam Store.....	Lynchburg, Va.....	Frye & Chesterman
Methodist Book Concern.....	San Francisco, Cal.....	Meyers & Ward
California Market Bldg.....	San Francisco, Cal.....	Herman Barth
Wells Fargo & Co. Express Bldg.....	San Francisco, Cal.....	Meyers & Ward
Doe State Bldg.....	San Francisco, Cal.....	Havens & Toepke
Emma Satterle Bldg.....	Tacoma, Wash.....	Heath & Twitchell
Denver Gas & Electric Bldg.....	Denver, Colo.....	F. E. Edbrooke
Rialto Bldg.....	Kansas City, Mo.....	Smith, Rea & Lovitt
Bamberger Dept Store.....	Newark, N. J.....	Jarvis Hunt

Hotels, Clubs and Apartments

BUILDINGS.	LOCATIONS.	ARCHITECTS.
Kimball Hotel.....	Springfield, Mass.....	Samuel Green & Co.
Perry Apartments.....	Seattle, Wash.....	Somerville & Cote
New Claypool Hotel.....	Indianapolis, Ind.....	Frank M. Andrews
Hotel Roanoke.....	Roanoke, Va.....	Geo. Pierson
Courtland Apartments.....	Lynchburg, Va.....	A. Chesterman
Algiers Hotel.....	Spokane, Wash.....	L. L. Rand
Business Men's Club.....	Memphis, Tenn.....	Shaw & Pfeill
Plaza Hotel.....	Indianapolis, Ind.....	Ora C. Pierson
New Palace Hotel.....	San Francisco, Cal.....	Trowbridge & Livingston
University Club.....	Washington, D. C.....	Geo. Oakley Totten, Jr.
Brown's Palace Hotel.....	Denver, Colo.....	F. E. Edbrooke
St. Nicholas Hotel.....	St. Louis, Mo.....	Adler, Sullivan & Ramsey
Warren Chambers.....	Boston, Mass.....	Ball & Dabney
Schenley Hotel.....	Pittsburgh, Pa.....	Rutan & Russell
Maryland Hotel.....	St. Louis, Mo.....	A. B. Groves
Y. W. C. A. Bldg.....	Detroit, Mich.....	Donaldson & Weirs
Belview Apartments.....	Dayton, Ohio.....	C. I. Williams

BEST BROS. KEENE'S CEMENT

BUILDINGS.	LOCATIONS.	ARCHITECTS.
Belnord Apartment House..	New York City.....	H. Hobart Weeks
Alwyn Court Apartments...	New York City.....	Harde & Shorte
New Onondaga Hotel.....	Syracuse, N. Y.....	Esenwein & Johnson
Birmingham Athletic Club..	Birmingham, Ala....	Miller & Martin
Country Club.....	Birmingham, Ala....	Miller & Martin
Hotel Rector.....	New York City.....	D. H. Burnham & Co.
Ritz-Carlton	New York City.....	Warren & Wetmore
Jefferson Hotel.....	St. Louis, Mo.....	Barnett, Haynes & Barnett

Hospitals, Museums, Etc.

BUILDINGS.	LOCATIONS.	ARCHITECTS.
Buffalo Historical Society Building	Buffalo, N. Y.....	Geo. Cary
Albright Art Gallery.....	Buffalo, N. Y.....	Green & Wicks
St. Luke's Hospital.....	Cleveland, Ohio.....	F. W. Striebinger
Montgomery Hospital.....	Eau Claire, Wis.....	C. L. Brown
Loyola College.....	Baltimore, Md.....	Thos. C. Kennedy
Pope Dispensary.....	Boston, Mass.....	Fred Pope
North West Turner Hall..	St. Louis, Mo.....	John D. Paulus
Veterinary College.....	Detroit, Mich.....	Nettleton, Kahn & Trowbridge
Lying-in Hospital	St. Louis, Mo.....	J. H. Randall
Barnes Medical College....	St. Louis, Mo.....	J. B. Legg & Co.
Fraternal Bldg.....	St. Louis, Mo.....	J. L. Wees
Methodist Orphan Homes..	St. Louis, Mo.....	T. B. Hannan & Son
Monticello Seminary.....	Godfrey, Ill.....	Link & Rosenheim
Lakeside Hospital	Cleveland, Ohio.....	G. H. Smith
St. Elizabeth Hospital....	Dayton, Ohio.....	J. E. Kinninger
West Tuberculosis Infirmary	New York City.....	R. F. Almira
Rensselaer Polytech. Inst.	Troy, N. Y.....	Lawlor & Haase
St. Mary's Sanitarium....	Pueblo, Colo.....	P. Mills
Sacred Heart Hospital....	Spokane, Wash.....	Albert Held
Jefferson Hospital.....	Roanoke, Va.....	Miller & Mahood
St. Francis Hospital.....	Pittsburgh, Pa.....	S. F. Heckert
New German Hospital.....	San Francisco, Cal..	Herman Barth
Hahnemann Hospital.....	San Francisco, Cal..	Meyers & Ward
Belcher Bath House.....	St. Louis, Mo.....	Stewart McClure
Santa Fe R. R. Hospital..	Los Angeles, Cal..	W. H. Mohr
U. S. Naval Hospital.....	Portsmouth, N. H....	U. S. Government
U. S. Naval Hospital.....	Newport, R. I.....	U. S. Government
U. S. Naval Hospital.....	Chelsea, Mass.....	U. S. Government
U. S. Naval Hospital.....	Annapolis, Md.....	U. S. Government
Elliott Memorial Hospital.	Minneapolis, Minn..	Wm. M. Kenyon
Psychopathic Hospital....	Boston, Mass.....	Kendall, Taylor & Co.
St. John's Hospital.....	St. Louis, Mo.....	Barnett, Haynes & Barnett
Hillman Hospital.....	Birmingham, Ala....	Chas. Wheelock & Son
St. Vincent Hospital.....	Birmingham, Ala....	T. M. Walters
St. Elizabeth Hospital....	Lincoln, Neb.....	James Tyler, Jr.
St. Philomena's Industrial School	St. Louis, Mo.....	Barnett, Haynes & Barnett
Provincial Mental Hospital	Mt. Coquitlam, B. C.	H. S. Griffith
Home for Indigent.....	Philadelphia, Pa....	Phillip H. Johnson
Montefiore Home for Jewish People.....	New York City.....	Buchman & Fox
State Hospital for Insane..	Chattahoochee, Fla..	Bishop & Greer
Barnes Hospital.....	St. Louis, Mo.....	Theo. C. Link
Children's Hospital.....	St. Louis, Mo.....	Mauran, Russell & Crowell
Measles Hospital.....	New York City.....	W. E. Austin
Norwich Hospital for Insane	Norwich, Conn.....	Cudworth & Woodworth
Mt. St. Mary's Hospital...	Niagara Falls, N. Y.	W. P. Ginther
Mount Zion Hospital.....	San Francisco, Cal..	J. E. Krafft & Sons
Santa Fe R. R. Hospital..	Mulvane, Kans.....	Jno. Yonkers
Sarah Morris Hospital for Children	Chicago, Ills.	Schmidt, Garden & Martin

BEST BROS. KEENE'S CEMENT

Depots, Theaters, Churches, Etc.

BUILDINGS.	LOCATIONS.	ARCHITECTS.
New Union Depot.....	Kansas City, Mo....	Jarvis Hunt
Merchants Loft Building,		
Grand Central Terminal.....	New York City....	Warren & Wetmore and Reed & Stem
D. L. & W. Terminal.....	Hoboken, N. J.....	Kenneth M. Murchison
New Union Depot.....	Joliet, Ill.....	Jarvis Hunt
Union Station.....	Pittsburgh, Pa.....	D. H. Burnham & Co.
W. & G. R. E. Power House.....	Washington, D. C....	D. S. Carll
Hudson Terminal Bldg.....	New York City....	Clinton & Russell
U. P. Headquarters Bldg.....	Omaha, Neb.....	Jarvis Hunt
Wisconsin Central Depot.....	Chicago, Ill.....	A. H. Lowden
C. & N. W. Depot.....	Chicago, Ill.....	Frost & Granger
Symphony Auditorium.....	Newark, N. J.....	McMurray & Pulis
New Masonic Temple.....	Quincy, Ill.....	John Batschy
Opera House.....	Kennett, Mo.....	L. B. Blackwood
Victoria Theater.....	Chicago, Ill.....	J. Ebersson
Irving Park Methodist Church	Chicago, Ill.....	H. B. Wheelock
Benedictine Convent of Per- petual Adoration.....	Clyde, Mo.....	Rev. P. Lukas
Convent of the Sacred Heart	St Louis, Mo.....	J. H. McNamarra
Convent of the Visitation..	St Louis, Mo.....	Barnett, Haynes & Barnett
Trinity Church, School and Parsonage	St Louis, Mo.....	Chas. F. Money
St. Paul Church and Par- sonage	St Louis, Mo.....	Chas. F. Money
Lutheran German School..	St Louis, Mo.....	Albert Knell
Evangelical Jesus Church..	St Louis, Mo.....	Ernest Hess
Norwegian Lutheran Church	Tacoma, Wash.....	Woodruff & Constable
Central Christian Church..	Wichita, Kans.....	C. D. Hunby
St. Cecilia's Church.....	Englewood, N. J.....	T. H. Poole & Co.

Private Residences

OWNERS.	LOCATIONS.	ARCHITECTS.
Henry Ford.....	Dearborn, Mich.....	W. H. Van Tine.
H. I. Cobb.....	Chicago, Ill.....	H. I. Cobb
Adolphus Busch.....	St. Louis, Mo.....	Widmann, Walsh & Boisselier
C. G. Powers.....	Decatur, Ill.....	R. O. Rosen
Spreckel's House.....	San Francisco, Cal..	Reid Bros.
Jos. Grant	San Francisco, Cal..	Hiss & Weeks
O. A. Mohrenstecher.....	Quincy, Ill.....	Harvey Chatten
Mrs. C. H. Nichols.....	Quincy, Ill.....	Harvey Chatten
F. Lamoreaux.....	Binghamton, N. Y....	H. S. Gardener
F. E. Woodruff.....	Binghamton, N. Y....	E. Vosbury
C. Q. Chandler.....	Wichita, Kans.....	U. G. Charles
C. C. Perry.....	Indianapolis, Ind....	D. A. Bollin
W. C. McElhaney.....	Pittsburgh, Pa.....	A. S. Miller
J. McDonough.....	Denver, Colo.....	J. B. Benedict
J. Ogden Armour.....	Chicago, Ill.....	Arthur Heun
R. A. Long.....	Kansas City, Mo....	H. F. Hoit
A. T. Hurt.....	Louisville, Ky.....	Loomis & Hartman
John A. Garver.....	Oyster Bay, L. I....	Stephenson & Wheeler
J. L. Loose.....	Kansas City, Mo....	Root & Siemens
J. A. Aylor.....	Kansas City, Mo....	Sheppard & Farrar
J. A. Hockett.....	Wichita, Kans.....	H. J. Stroeh
G. W. Baylor.....	Roanoke, Va.....	Miller & Mahood
Col. Wm. E. Hughes.....	St. Louis, Mo.....	Mauran, Russell & Crowell
Chester I. Long.....	Wichita, Kans.....	M. P. Murdock
W. C. Stephenson.....	Roanoke, Va.....	Frye & Chesterman
R. H. McCord.....	Kansas City, Mo....	Henry F. Hoit
H. McCormick Blair.....	Chicago, Ill.....	Arthur Heun
J. L. Johnson.....	Wichita, Kans.....	H. S. Conrow
C. S. Pillsbury.....	Minneapolis, Minn..	Hewitt & Brown
August A. Busch.....	Grants Farm, Mo....	Widman & Walsh

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